



SEQUENCE LISTING

<110> Kirsch, Wolff
Lennart, Anton
Kelln, Wayne
Kang, Dae-Kyung
Levine, Rodney
Rouault, Tracey

<120> IRON-REGULATING PROTEIN-2 (IRP-2) IS
DIAGNOSTIC FOR NEURODEGENERATIVE DISEASE

<130> LOMAU.140A

<140> 09/924,396

<141> 2001-08-06

<150> 60/222,863

<151> 2000-08-04

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      20             25             30
Gly Gln Thr Thr Cys Arg Gly Ser Cys Asp Ser Gly Glu Leu Gly Arg
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Asn Ser Gly Thr Phe Ser Ser Gln Ile Glu Asn Thr Pro Ile Leu
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35 40 45
Asn Ser Gly Thr Phe Ser Ser Gln Ile Glu Asn Thr Pro Ile Leu
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Gly	Lys	Leu	Ser	Pro	Leu	Lys	Val	Gln	Pro	Lys	Lys	Leu	Pro	Cys	Arg
			20					25					30		
Gly	Gln	Thr	Thr	Ala	Arg	Gly	Ser	Cys	Asp	Ser	Gly	Glu	Leu	Gly	Arg
		35				40					45				
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<223> cloning oligonucleotide

<400> 7

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gctgattctg	gagaactagg	ccgaaactca	ggaacatttt	cttcgcagat	tgagaatata	180
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<223> peptide for antibody production

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			20					25					30		
Gly	Gln	Thr	Thr	Cys	Arg	Gly	Ser	Ala	Asp	Ser	Gly	Glu	Leu	Gly	Arg
		35				40					45				
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Asn Ser Gly Thr Phe Ser Ser Gln Ile Glu Asn Thr Pro Ile Leu
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Asn Ser Gly Thr Phe Ser Ser Gln Ile Glu Asn Thr Pro Ile Leu
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gctgattctg gagaactagg ccgaaactca ggaacatttt cttcgcatat tgagaatata 180
cccatcctg                                     189
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<213> Artificial Sequence

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<223> peptide for antibody production

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Gly Lys Leu Ser Pro Leu Lys Val Gln Pro Lys Lys Leu Pro Ala Arg
          20          25          30
Gly Gln Thr Thr Cys Arg Gly Ser Ala Asp Ser Gly Glu Leu Gly Arg
          35          40          45
Asn Ser Gly Thr Phe Ser Ser Gln Ile Glu Asn Thr Pro Ile Leu
 50             55             60
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cccatcctg                                     189
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Gly Lys Leu Ser Pro Leu Lys Val Gln Pro Lys Lys Leu Pro Ala Arg
          20          25          30
Gly Gln Thr Thr Ala Arg Gly Ser Ala Asp Ser Gly Glu Leu Gly Arg
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Asn Ser Gly Thr Phe Ser Ser Gln Ile Glu Asn Thr Pro Ile Leu		
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<212> PRT

<213> Homo Sapiens

<400> 18

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			20					25					30		
Val	Leu	Leu	Glu	Ala	Ala	Val	Arg	Asn	Cys	Asp	Gly	Phe	Leu	Met	Lys
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Lys	Glu	Asp	Val	Met	Asn	Ile	Leu	Asp	Trp	Lys	Thr	Lys	Gln	Ser	Asn
	50					55					60				
Val	Glu	Val	Pro	Phe	Phe	Pro	Ala	Arg	Val	Leu	Leu	Gln	Asp	Phe	Thr
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Gly	Ile	Pro	Ala	Met	Val	Asp	Phe	Ala	Ala	Met	Arg	Glu	Ala	Val	Lys
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Thr	Leu	Gly	Gly	Asp	Pro	Glu	Lys	Val	His	Pro	Ala	Cys	Pro	Thr	Asp
			100					105					110		
Leu	Thr	Val	Asp	His	Ser	Leu	Gln	Ile	Asp	Phe	Ser	Lys	Cys	Ala	Ile
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Lys	Asp	Leu	Leu	Phe	Pro	Asp	Ser	Val	Val	Gly	Thr	Asp	Ser	His	Ile
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Ser	Ile	Asp	Val	Val	Leu	Gly	Ile	Thr	Lys	His	Leu	Arg	Gln	Val	Gly
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Val	Ala	Gly	Lys	Phe	Val	Glu	Phe	Phe	Gly	Ser	Gly	Val	Ser	Gln	Leu
			340					345					350		
Ser	Ile	Val	Asp	Arg	Thr	Thr	Ile	Ala	Asn	Met	Cys	Pro	Glu	Tyr	Gly
		355					360					365			
Ala	Ile	Leu	Ser	Phe	Phe	Pro	Val	Asp	Asn	Val	Thr	Leu	Lys	His	Leu
	370					375						380			

Glu	His	Thr	Gly	Phe	Ser	Lys	Ala	Lys	Leu	Glu	Ser	Met	Glu	Thr	Tyr	385	390	395	400
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Pro	Glu	Tyr	Ser	Gln	Val	Ile	Gln	Ile	Asn	Leu	Asn	Ser	Ile	Val	Pro	420	425	430	
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Tyr	Glu	Gly	Ser	Glu	Tyr	Lys	Leu	Ser	His	Gly	Ser	Val	Val	Ile	Ala	485	490	495	
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Glu	Ile	Val	Gly	Tyr	Gly	Cys	Ser	Thr	Cys	Val	Gly	Asn	Thr	Ala	Pro	565	570	575	
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Cys	Gly	Asn	Phe	Ile	Trp	Lys	Lys	Asn	Phe	Glu	Gly	Arg	Leu	Cys	Asp	595	600	605	
Cys	Val	Arg	Ala	Asn	Tyr	Leu	Ala	Ser	Pro	Pro	Leu	Val	Val	Ala	Tyr	610	615	620	
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Thr	Asp	Pro	Thr	Gly	Lys	Asn	Ile	Tyr	Leu	His	Asp	Ile	Trp	Pro	Ser	645	650	655	
Arg	Glu	Glu	Val	His	Arg	Val	Glu	Glu	Glu	His	Val	Ile	Leu	Ser	Met	660	665	670	
Phe	Lys	Ala	Leu	Lys	Asp	Lys	Ile	Glu	Met	Gly	Asn	Lys	Arg	Trp	Asn	675	680	685	
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Ile	Ala	Leu	Gln	Ala	Ile	Glu	Asn	Ala	His	Val	Leu	Leu	Tyr	Leu	Gly	725	730	735	
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Asn	Ser	Ala	Ala	Ala	Lys	Tyr	Leu	Thr	Asn	Arg	Gly	Leu	Thr	Pro	Arg	755	760	765	
Glu	Phe	Asn	Ser	Tyr	Gly	Ala	Arg	Arg	Gly	Asn	Asp	Ala	Val	Met	Thr	770	775	780	
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Pro	Ala	Pro	Lys	Thr	Ile	His	Phe	Pro	Ser	Gly	Gln	Thr	Leu	Asp	Val	805	810	815	
Phe	Glu	Ala	Ala	Glu	Leu	Tyr	Gln	Lys	Glu	Gly	Ile	Pro	Leu	Ile	Ile	820	825	830	
Leu	Ala	Gly	Lys	Lys	Tyr	Gly	Ser	Gly	Asn	Ser	Arg	Asp	Trp	Ala	Ala				

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Glu Lys Ile His Lys Asp His Leu Ile Gly Ile Gly Ile Ala Pro Leu				
865		870		875
Gln Phe Leu Pro Gly Glu Asn Ala Asp Ser Leu Gly Leu Ser Gly Arg				
	885		890	895
Glu Thr Phe Ser Leu Thr Phe Pro Glu Glu Leu Ser Pro Gly Ile Thr				
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Leu Asn Ile Gln Thr Ser Thr Gly Lys Val Phe Ser Val Ile Ala Ser				
	915		920	925
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<212> PRT

<213> Rattus Norvegicus

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Gly Thr Lys Tyr Asp Ile Leu Pro Tyr Ser Ile Arg Val Leu Leu Glu
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          50          55          60
Ile Asn Ile Leu Asp Trp Lys Thr Lys Gln Ser Asn Val Glu Val Pro
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          85          90          95
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His Ser Leu Gln Ile Asp Phe Ser Lys Cys Ala Ile Gln Asn Ala Pro
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